Termix BL

Domestic hot water charging system for large apartment houses, sports arenas and schools

Instantaneous water heater with heat exchanger and automatic controls.
Designed for wall-mounting.

Application
The Termix BL is a water heater with automatic controls prepared for a charging system. The Termix BL is suitable for large apartment houses, sports arenas and schools, where large amounts of hot water are needed. The hot water systems are available in 7 different sizes with an output from 70-222 kW. The Termix BL unit is supplied with PU insulated plate heat exchangers.

Domestic hot water (DHW)
The Termix BL is available for charging systems with large momentary demands for hot water or in installations with relatively low supply capacity. The Termix BL charging system is delivered with Danfoss automatic controls for regulation of the charging temperature and the temperature in the hot water buffer tank. The control valve with integrated pressure control helps to avoid cyclic variations of the differential pressure in the district heating supply.

Domestic hot water circulation
The Termix BL substation is supplied with connections for DHW circulation including circulation pump and a non-return valve as a standard.

Options
The substation can be supplied with a safety valve and a thermostatic circulation valve.

Construction
All pipes are made of stainless steel. The connections are made by nuts and gaskets. The Termix BL substation can be delivered with a white-lacquered steel cover in modern design.

FEATURES AND BENEFITS

- Instantaneous water heater
- DHW regulation with automatic controls
- Capacity: 70-222 kW DHW
- DHW in sufficient quantity
- Operates independent of differential pressure and flow temperature
- Minimum space required for installation
- Pipes and plate heat exchanger made of stainless steel
- Minimized risk of lime scale and bacteria formation

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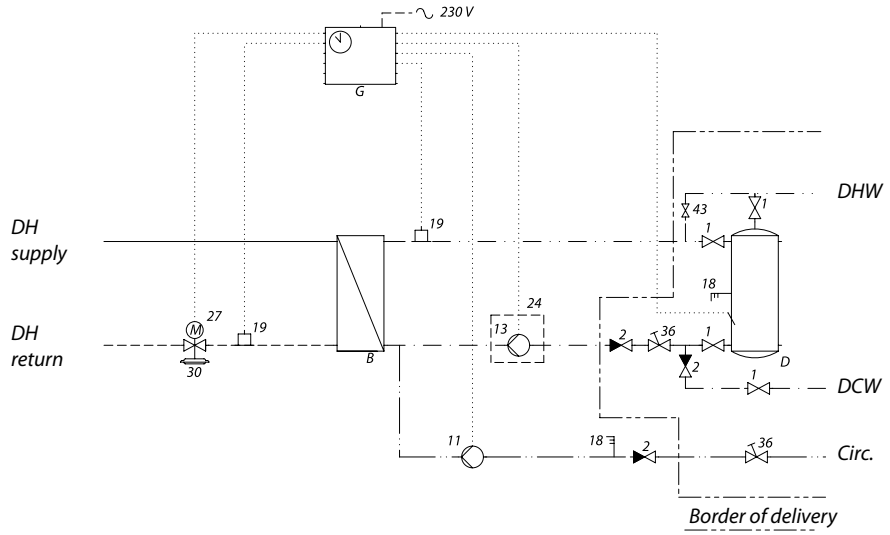
Circuit diagram - example



B Plate heat exchanger DHW
D Hot water tank
G Electronic controller DHW
1 Ball valve
2 Non-return valve
11 DHW pump
13 Charging pump
18 Thermometer
19 Surface sensor
24 Delivered loose with unit
27 Actuator
30 Flow control w. control valve
36 Balancing valve
43 Ball valve closed

Technical parameters:

Nominal pressure:	PN 16
DH supply temperature:	T_{max} = 120 °C
DCW static pressure:	p_{min} = 0,5 bar
Brazing material (HEX):	Copper

Weight incl. cover: 20-40 kg (incl. packing)

Cover: White-lacquered steel sheet

Dimensions (mm):

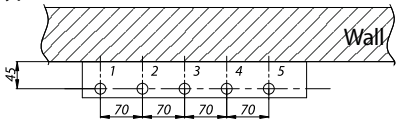
Without cover:
H 660 x W 510 x D 240 (type 2-5)
H 1000 x W 800 x D 340 (type 6-8)

With cover:
H 800 x W 540 x D 360 (type 2-5)
H 1000 x W 950 x D 525 (type 6-8)

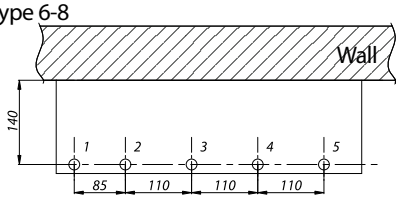
Connections:

1 District heating (DH) supply
2 District heating (DH) return
3 Circulation
4 Domestic hot water (DHW)
5 Domestic cold water (DCW)

Type 2-5



Type 6-8



Seen from above

Connections sizes:

DH + DCW + DHW:	G 1" (int. thread)
Circulation:	G ¾" (int. thread)

Options:

- White-lacquered steel cover
- Safety valve and non-return valve (10 bar)
- Thermostatic circulation set

DHW: Capacity examples, 60 °C/20 °C (Primary flow)

Substation type	Charging capacity kW	Recommended size of tank litre	Number of showers*
BL - 2 E-CP	70	200	10
BL - 3 E-CP	82	300	15
BL - 4 E-CP	113	600	25
BL - 5 E-CP	126	800	30
BL - 6 E-CP	157	800	35
BL - 7 E-CP	186	1000	40
BL - 8 E-CP	222	1000	45

* Flow per shower: 10 l/min - DHW temp. at tap: 40 °C

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